Job No.: CQCE/BBMP/MKN/W.No.5/2018-19

Date: 14.07.2018

TEST REPORT

CLIENT	:	**Deputy Conservator of Forest,** Lakes Division, BBMP, Bangalore.
AGENCY	:	**Sri. Mahesh K.N,** Contractor, Bangalore.
NAME OF THE WORK	:	Development of Green Space and Parks to Vin Field Layout Main Road Park Ward-5 Jakkur (Yelahanka Zone), BBMP, Bangalore.
SAMPLE ID	:	Cement
SAMPLES SUPPLIED BY	:	AGENCY

The results of the tests conducted on the cement sample are as follows:

Sl.No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 12269-1987
1	a) Initial Setting Time	IS-4031 (Part -5)	130 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5)	410 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part 3) by the Le-Chatelier method	1 mm	Not more than 10 mm
3	Standard Consistency	IS-4031 (Part -4)	28.50 %	-

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Job No.: CQCE/BBMP/MKN/W.No.5/2018-19 Date : 14.07.2018

TEST REPORT ON FINE AGGREGATES (SAND)
IS 2116-1980

Client : **Deputy Conservator of Forest,** Lakes Division, BBMP, Bangalore.

Agency : **Sri. Mahesh K.N,** Contractor, Bangalore.

Name of Work : Development of Green Space and Parks to Vin Field Layout Main Road Park Ward-5 Jakkur (Yelahanka Zone), BBMP, Bangalore.

Date of Testing : 14.07.2018

Material : M-Sand Total wt. of aggregates in gms = **1000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits as per IS 2116-1980
4.75	0	0.00	0.00	100.0	100
2.36	14	1.40	1.40	98.6	90-100
1.18	38	3.80	5.20	94.8	70-100
600 Micron	75	7.50	12.70	87.3	40-100
300 Micron	246	24.60	37.30	62.7	5-.70
150 Micron	499	49.90	87.20	12.8	0-15

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Office & Laboratory : # 133, Bhuvaneshwarinagar, Dodda Basti Main Road, Bangalore - 560 056.
e-mail:civilqualityconsultants@gmail.com Ph: 080-23240644 / Mob: 8553518550

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Job No.: CQCE/BBMP/MKN/W.No.5/2018-19 Date : 14.07.2018

TEST REPORT ON COARSE AGGREGATES
IS 383-1970 (RA- 2002)

Client : **Deputy Conservator of Forest,** Lakes Division, BBMP, Bangalore.
Agency : **Sri. Mahesh K.N,** Contractor, Bangalore.
Name of Work : Development of Green Space and Parks to Vin Field Layout Main Road Park Ward-5 Jakkur (Yelahanka Zone), BBMP, Bangalore.
Date of Testing : 14.07.2018
Material : 40mm Aggregates

Total Wt. of Aggregates in gms **15000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
80	0	0	0	100	100
40	589	3.93	3.93	96.07	95-100
20	5515	36.77	40.69	59.31	30-70
10	4365	29.10	69.79	30.21	10-35
4.75	3874	25.83	95.62	4.38	0-5

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Job No.: CQCE/BBMP/MKN/W.No.5/2018-19 Date : 14.07.2018

TEST REPORT ON COARSE AGGREGATES
IS 383-1970 (RA- 2002)

Client : **Deputy Conservator of Forest,** Lakes Division, BBMP, Bangalore.
Agency : **Sri. Mahesh K.N,** Contractor, Bangalore.
Name of Work : Development of Green Space and Parks to Vin Field Layout Main Road Park Ward-5 Jakkur (Yelahanka Zone), BBMP, Bangalore.
Date of Testing : 14.07.2018
Material : 20mm Aggregates

Total Wt. of Aggregates in gms= **5000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
40	0	0	0	100	100
20	198	4.0	4.0	96.0	95-100
10	3423	68.5	72.4	27.6	25-55
4.75	1152	23.0	95.5	4.5	0-10

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Job No.: CQCE/BBMP/MKN/W.No.5/2018-19

Date : 14.07.2018

TEST REPORT ON FINE AGGREGATES (SAND)
IS 2116-1980

Client : **Deputy Conservator of Forest,** Lakes Division, BBMP, Bangalore.

Agency : **Sri. Mahesh K.N,** Contractor, Bangalore.

Name of Work : Development of Green Space and Parks to Vin Field Layout Main Road Park Ward-5 Jakkur (Yelahanka Zone), BBMP, Bangalore.

Date of Testing : 14.07.2018

Material : Sand

Total wt. of aggregates in gms = **1000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits as per IS 2116-1980
4.75	0	0.00	0.00	100.0	100
2.36	14	1.40	1.40	98.6	90-100
1.18	38	3.80	5.20	94.8	70-100
600 Micron	75	7.50	12.70	87.3	40-100
300 Micron	246	24.60	37.30	62.7	5-.70
150 Micron	499	49.90	87.20	12.8	0-15

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Job No.: CQCE/BBMP/MKN/W.No.5/2018-19

Date : 14.07.2018

TEST REPORT ON FINE AGGREGATES (SAND)
IS 383-1970 (RA- 2002)

Client : **Deputy Conservator of Forest,** Lakes Division, BBMP, Bangalore.

Agency : **Sri. Mahesh K.N,** Contractor, Bangalore.

Name of Work : Development of Green Space and Parks to Vin Field Layout Main Road Park Ward-5 Jakkur (Yelahanka Zone), BBMP, Bangalore.

Date of Testing : 14.07.2018

Material : Sand

Total Wt. of Aggregates in gms **1000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits For Zone-II
10	0	0	0	100	100
4.75	89	8.90	8.90	91.1	90-100
2.36	140	14.00	22.90	77.1	75-100
1.18	156	15.60	38.50	61.5	55-90
600 Micron	189	18.90	57.40	42.6	35-59
300 Micron	266	26.60	84.00	16.0	8-30
150 Micron	140	14.00	98.00	2.0	0-10

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Job No.: CQCE/BBMP/MKN/W.No.5/2018-19 Date: 16.07.2018

TEST REPORT

CLIENT	:	**Deputy Conservator of Forest,** Lakes Division, BBMP, Bangalore.
AGENCY	:	**Sri. Mahesh K.N,** Contractor, Bangalore.
NAME OF THE WORK	:	Development of Green Space and Parks to Vin Field Layout Main Road Park Ward-5 Jakkur (Yelahanka Zone), BBMP, Bangalore.
SAMPLE ID	:	Bricks Test – Class 5.0
SAMPLES SUPPLIED BY	:	AGENCY

The results of the tests conducted on the samples are as follows:

Sl. No	Description	Test method as per IS Codes	Result	Requirement as per IS 1077-1992 (Rev-5)
1	Compressive Strength Of Bricks	IS 3495-1992 (Part-1)	5.49 N/mm^2	Class designation 5.0
2	Water Absorption of Bricks	IS 3495-1992 (Part – 2)	14.83 %	Not more than 20 %
3	Efflorescence of Bricks	IS 3495-1992 (Part – 3)	Moderate	Up to 12.5 Class
4	Dimensional Analysis of Bricks (minimum Sampling is 20 Nos.)	IS 1077-1992 (Rev – 5)		
(a)	Measurement of Length in mm		3826 mm	(3800 ± 80 mm)
(b)	Measurement of Width in mm		1818 mm	(1800 ± 40 mm)
(c)	Measurement of Height in mm		1424 mm	(1400 ± 40 mm)

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Job No.: CQCE/BBMP/MKN/W.No.5/2018-19 Date: 16.07.2018

TEST REPORT

Client	:	**Deputy Conservator of Forest,** Lakes Division, BBMP, Bangalore.
Agency	:	**Sri. Mahesh K.N,** Contractor, Bangalore.
Name of The Work	:	Development of Green Space and Parks to Vin Field Layout Main Road Park Ward-5 Jakkur (Yelahanka Zone), BBMP, Bangalore.
Type of the test	:	Physical tests on Paver Blocks
Samples supplied by	:	Agency

The results of the tests conducted on the Paver Blocks sample are as follows:

1. THICKNESS:

Sl. No	Identification	Thickness, mm	Average thickness, mm
1	01	60.20	60.18
2	02	60.15	

2. COMPRESSIVE STRENGTH:

Sl. No	Identification	Load in Kilo-Newton	Cross sectional area, mm^2	Compressive strength N/mm^2
1	01	693.8	24,200	28.67
2	02	688.6	24,200	28.45

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Job No.: CQCE/BBMP/MKN/W.No.5/2018-19 Date: 16.07.2018

TEST RESULTS OF PHYSICAL PROPERTIES OF REINFORCEMENT STEEL

Client : **Deputy Conservator of Forest,** Lakes Division, BBMP, Bangalore.
Agency : **Sri. Mahesh K.N,** Contractor, Bangalore.
Name of Work : Development of Green Space and Parks to Vin Field Layout Main Road Park Ward-5 Jakkur (Yelahanka Zone), BBMP, Bangalore.
Sample Identification : 10mm,12mm Fe 500 TMT Bars
Technical Reference : IS 1786:2008, IS 1608:2005, IS 1599:1985 (Reaffirmed 2006)
Date of test : 16.07.2018

S.No	Brand	Nominal size (dia in mm)	Mass per metre (kg/metre)	TENSILE STRENGTH		
				0.20 % proof stress/ yield stress ($N/mm^{2)}$	Tensile strength ($N/mm^{2)}$	Elongation, percent on gauge length
1	Fe 500	10	0.63	546	559	14.5
2	Fe 500	12	0.89	558	567	16

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